



DMEGC Quality.Performance. Value.

MONO CRYSTALLINE MODULE

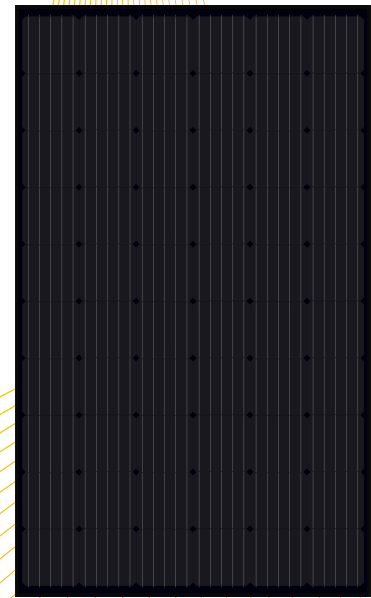
OPJ300-LV SMART SERIES

DM285-M156-60BKS

60 x 6" / 275 - 285W

Wattages:

275 / 280 / 285



SolarEdge power optimizer OPJ300-LV
Module embedded solution



Safer Installations

Unique Pass-Thru connector for easy module pashing and yeld replacement



Power-Positive Tolerance

Guaranteed power output (0/+3%)



Up to 25% higher energy yield

Per-module Maximum Power Point Tracking (MPPT)
Mitigates all types of modules mismatch -loss, from manufacturing tolerance to partial shading



High module conversion efficiency

Module efficiency up to 17.41% achieved through advanced cell technology and manufacturing capabilities

www.dmegcsolar.com

Superior Manufacturing-Quality Assurance



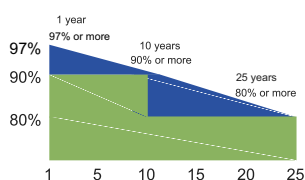
- All modules are manufactured using TQC & SPC quality control systems
- Advanced cell sorting to avoid electric mismatch
- 100% EL Test-before lamination & prior to shipment
- Comprehensive Safety and Reliability tests are performed

OPJ300-LV Module Embedded Solution



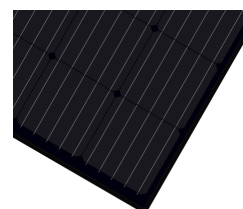
DMEGC Smart Module comes with SolarEdges Power Optimizer platform which enables a number of smart functions

Warranty



- 10 Years Manufacturers Warranty
- 10 Years Warranty, 90% power output
- 25 Years Warranty, 80% power output

Visible Quality



- Durable, high-quality
- Rigid construction: 5400Pa & 2400Pa rated assembly



Electrical Specifications

* STC irradiance of 1000W/m² spectrum AM 1.5 and cell temperature of 25°C

| Module Type | Pm(W) | Tolerance | Imp(A) | Vmp(V) | Isc(A) | Voc (V) | Module Efficiency |
|------------------|-------|-----------|--------|--------|--------|---------|-------------------|
| DM275-M156-60BKS | 275 | 0/+3% | 8.79 | 31.31 | 9.25 | 38.68 | 16.80% |
| DM280-M156-60BKS | 280 | 0/+3% | 8.87 | 31.60 | 9.32 | 38.89 | 17.11% |
| DM285-M156-60BKS | 285 | 0/+3% | 8.94 | 31.90 | 9.39 | 39.10 | 17.41% |

Mechanical Data

| | |
|---------------------|-------------------------------|
| Cell Type | DMTD5B157-210 |
| Cell Arrangement | 60(6x10) |
| Module Structure | Glass/ EVA / Backsheet(black) |
| Glass Thickness | 3.2mm |
| Application Class | Class A at IEC 61730 |
| Junction Box Rating | IP 67 |
| Cables | 1000mm/4mm ² |
| Connector Type | MC4 |
| Fire Rating Class | Class C |

Maximum Ratings

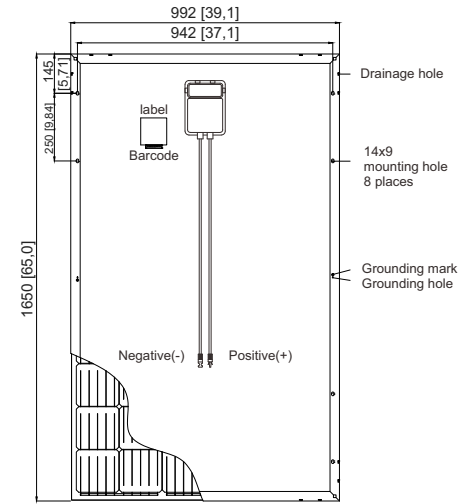
| | |
|----------------------------|-----------------------------|
| Operating Temperature | -40°C to +85°C |
| Maximum Load Capacity | Snow 5400Pa / Wind 2400Pa |
| Maximum System Voltage | 600V DC(UL) / 1000V DC(IEC) |
| Maximum Series Fuse Rating | 15A |
| Number of Diodes | 3 |

Packaging

| | |
|----------------------------|----------------|
| Module Dimensions | 1650x992x40mm |
| Weight | 19.5kg |
| Pallet Dimensions | 1700x1130x1130 |
| Container | 40' HQ |
| Pieces per Pallet | 26 |
| Pallets per Container | 28 |
| Pieces per Container | 728 |
| Gross Weight per Pallet | 550kg |
| Gross Weight per Container | 15,400kg |

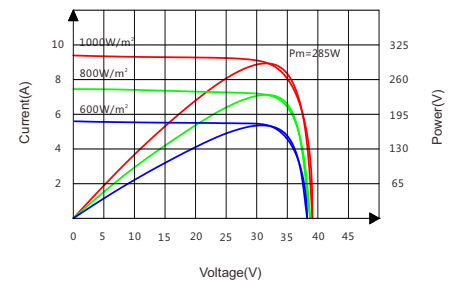
Temperature Characteristics

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficient of Isc | +0.043%/°C |
| Temperature Coefficient of Voc | -0.320%/°C |
| Temperature Coefficient of Pmax | -0.420%/°C |



(Back side)
Note:mm[inch]

Current-Voltage&Power-Voltage Curve(285W)



Temperature Dependence of Isc, Voc, Pmax

